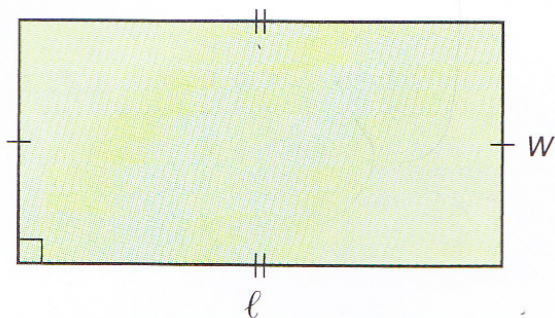


L1 - Measuring Perimeter and Area

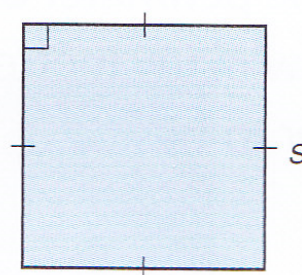
Rectangle



$$P = 2\ell + 2w$$

$$A = \ell w$$

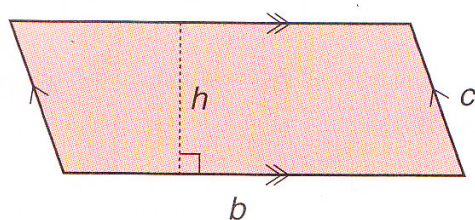
Square



$$P = 4s$$

$$A = s^2$$

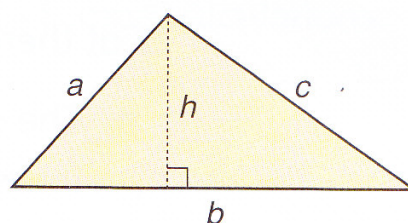
Parallelogram



$$P = 2b + 2c$$

$$A = bh$$

Triangle

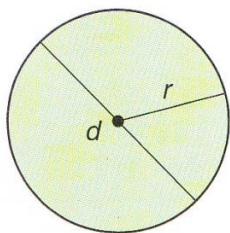


$$P = a + b + c$$

$$A = \frac{1}{2}bh$$

$$A = \frac{bh}{2} \text{ or}$$

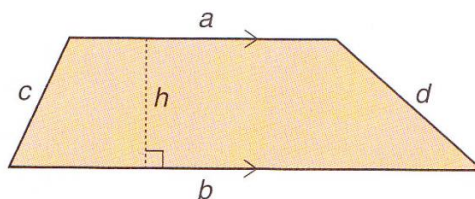
Circle



$$C = \pi d \text{ or } C = 2\pi r$$

$$A = \pi r^2$$

Trapezoid

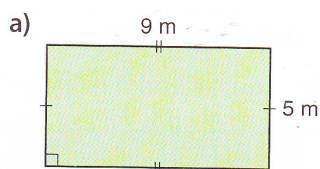


$$P = a + b + c + d$$

$$\text{Area} = \frac{1}{2} (\text{sum of parallel sides}) \times \text{height}$$

$$\text{or, } A = \frac{1}{2} (a + b)h$$

Ex. 1: Find the area and perimeter of each figure.

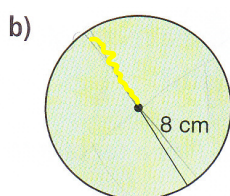


$$P = 9 + 5 + 9 + 5$$

$$= 28 \text{ m}$$

$$A = 9 \times 5$$

$$= 45 \text{ m}^2$$



$$C = 2\pi r$$

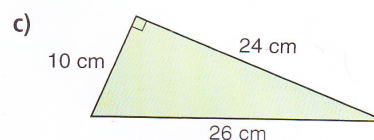
$$= 2\pi(8)$$

$$= 50.265 \text{ cm}$$

$$A = \pi r^2$$

$$= \pi(8)^2$$

$$= 201.06 \text{ cm}^2$$



$$P = 10 + 24 + 26$$

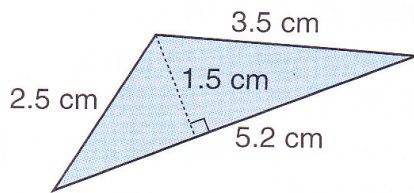
$$= 60 \text{ cm}$$

$$A = \frac{b \times h}{2}$$

$$= \frac{10 \times 24}{2}$$

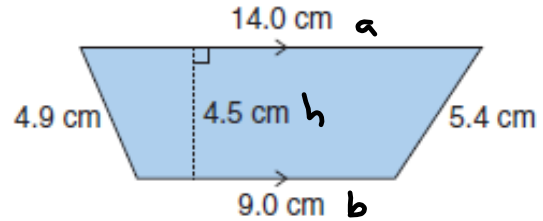
$$= 120 \text{ cm}^2$$

Ex. 1: Find the area and perimeter of each figure.



$$P = 3.5 + 5.2 + 2.5 \\ = 11.2 \text{ cm}$$

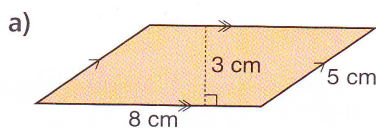
$$A = \frac{b \times h}{2} \\ = \frac{5.2 \times 1.5}{2} \\ = 3.9 \text{ cm}^2$$



$$P = 4.9 + 14.0 + 5.4 + 9.0 \\ = 37.8 \text{ cm}$$

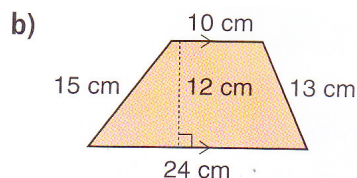
$$A = \frac{1}{2}(a+b) \times h \\ = \frac{1}{2}(14+9) \times 4.5 \\ = 47.25 \text{ cm}^2$$

Ex. 1: Find the area and perimeter of each figure.



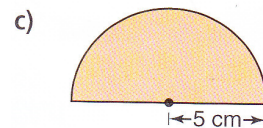
$$P = 5 + 8 + 5 + 8 \\ = 26 \text{ cm}$$

$$A = b \times h \\ = 8 \times 3 \\ = 24 \text{ cm}^2$$



$$P = 15 + 10 + 13 + 24 \\ = 62 \text{ cm}$$

$$A = \frac{1}{2}(a+b)h \\ = \frac{1}{2}(24+10) \times 12 \\ = 204 \text{ cm}^2$$



$$C = 2\pi r \\ = 2\pi(5) \\ = 31.4159 \div 2 \\ = 15.7 \text{ cm}$$

$$A = \pi r^2 \\ = \pi(5)^2 \\ = 78.5398 \div 2 \\ = 39.26 \text{ cm}^2$$

Assigned Work

p. 5

#4